Index of Claims

| Applica | tion/Cor | ntrol | No. |
|---------|----------|-------|-----|

10/629,877

Examiner

Duc T. Doan

Applicant(s)/Patent under Reexamination

JIBBE, MAHMOUD K.

Art Unit

2188

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      |          |  | Date Claim Date |  |              |              |          |                 |           |          | 4        | Cla             | Date     |  |         |                |          |                 |          |          |            |                      |          |          |                    |           |
|----------|----------|----------|--|-----------------|--|--------------|--------------|----------|-----------------|-----------|----------|----------|-----------------|----------|--|---------|----------------|----------|-----------------|----------|----------|------------|----------------------|----------|----------|--------------------|-----------|
| Final    | Original | 2/5/06   |  |                 |  |              |              |          |                 |           | Finat    | Original |                 |          |  |         |                |          |                 |          | Final    | Original   |                      |          |          |                    |           |
|          | 1        | ٧        |  |                 |  |              |              |          |                 |           |          | 51       |                 | $\perp$  |  |         |                |          |                 |          |          | 101        |                      | $\Box$   |          | $\Box$             | $\Box$    |
|          | 2        | ٧        |  |                 |  |              |              | <u> </u> | Щ               |           |          | 52       | Ш               | $\perp$  | $\perp$  | 丄       | $\downarrow$   | Ш        | ot              | _        | <u></u>  | 102        |                      |          |          |                    | _         |
| <u></u>  | 3        | ٧        |  |                 |  |              | L            | L_       | Щ               |           | <u> </u> | 53       | Ш               | _        | $\perp$  | $\perp$ | ļ              |          |                 | 4        |          | 103        | $\dashv$             | _        | 4        | _                  | _         |
| <u> </u> | 4        | V        |  | _               |  | L            | ļ            | <u> </u> |                 |           |          | 54       | ╙               | 4        | _  | $\bot$  | _              | $\perp$  |                 | 4        |          | 104        | $\dashv$             | -        | 4        | _                  | $\dashv$  |
|          | 5        | ٧        |  | _               | _  | <u> </u>     | <u> </u>     | <u> </u> |                 |           | ļ        | 55       | $\vdash$        | +        | +  | +       | ₩              | Н        | _               | 4        |          | 105        | $\dashv$             | $\dashv$ | -        | +                  | $\dashv$  |
| ļ        | 6        | V        |  | H               | _  | ⊬            | ├-           | ├        | $\vdash$        | $\dashv$  |          | 56       | $\vdash$        |          | +  | +       | ╄              | $\vdash$ | -               | -        | $\vdash$ | 106<br>107 | -                    |          | -        |                    | $\dashv$  |
| -        | 8        | ٧        |  | ┞               | -  | <del> </del> | ├            | <u> </u> | $\vdash$        | $\dashv$  |          | 57<br>58 | $\vdash$        | +        | +  | ╁       | ╁╾             | $\vdash$ | +               | -        | <u> </u> | 107        |                      | -        | -        | +                  | $\dashv$  |
| <u> </u> | 9        | V        | -  | $\vdash$        | _  | -            | ⊢            |          | Н               | $\dashv$  | -        | 59       | ├─┼             | +        | +  | +       | +              | +        | _               | -1       |          | 109        | -                    | $\dashv$ | +        | +                  | +         |
| -        | 10       | v        |  | $\vdash$        |  | $\vdash$     | ╁            | $\vdash$ | ┤┤              | $\dashv$  |          | 60       | $\vdash$        | +        | +  | +       | ╁              | +        | $\dashv$        | $\dashv$ | $\vdash$ | 110        | $\vdash$             | +        | $\dashv$ | $\dashv$           | 十         |
|          | 11       | ١÷       |  | ┢               |  | -            |              | $\vdash$ | $\Box$          | $\neg$    | -        | 61       |                 | <u> </u> | +  | ╅       | †              | -        | -               | -        |          | 111        |                      | 1        | 7        | _                  | ┪         |
|          | 12       | v        | <del>                                     </del> | $\vdash$        | $\vdash$   | ļ            | t            | l        | H               | $\dashv$  |          | 62       |                 | $\dashv$ | T  | $\top$  | 1              | $\top$   | $\Box$          | ┪        |          | 112        | $\Box$               | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$  |
|          | 13       | v        | Г  | Г               | Г  | İ.           |              |          |                 |           |          | 63       |                 | 一        | $\top$   |         |                | $\Box$   |                 |          |          | 113        |                      | ╛        | ╛        | _                  |           |
|          | 14       | v        |  |                 |  |              | $L^-$        |          |                 |           |          | 64       |                 |          |  |         | $oldsymbol{L}$ |          |                 |          |          | 114        |                      |          |          | $\Box$             |           |
|          | 15       | ٧        |  |                 |  |              |              |          |                 |           |          | 65       |                 |          |  |         |                |          |                 |          |          | 115        |                      |          |          | $\perp$            | $\Box$    |
|          | 16       | ٧        |  |                 |  |              |              |          | Ш               |           |          | 66       |                 |          |  |         | <u> </u>       |          | $\perp$         | _        |          | 116        |                      | _        | _        | _                  | _         |
| $\perp$  | 17       | v        | <u> </u>   |                 | _  | <u> </u>     | L            | _        | Ш               | _         |          | 67       |                 | $\perp$  | 4  | ┵       | _              | $\perp$  |                 | _        | L        | 117        |                      | _        | $\Box$   | _                  | _         |
| $\vdash$ | 18       | v        | _  |                 | L  | <u> </u>     | <u> </u>     | _        | Ш               | _         | <u> </u> | 68       | $\sqcup$        | _ _      | 4  | $\bot$  | ╄              | Ш        |                 | 4        |          | 118        | $\Box$               | _        | _        | _                  | _         |
| <u> </u> | 19       | V        |  | <u> </u>        | _  | ــــ         | <u> </u>     | <u> </u> | Н               | _         | <u> </u> | 69       | $\vdash$        | -        | $\perp$  | +-      | ╁              | -        | $\vdash$        | 4        |          | 119        |                      | -        |          | -                  | -         |
| $\vdash$ | 20       | V        | ⊢  | ┝               | L  | ├            | ├            | -        | $\vdash \vdash$ | 4         | <u> </u> | 70       | $\vdash$        | -        | +  | +       | ╁              | +        |                 | 4        |          | 120        |                      | -        | -+       | -+-                |           |
| <u> </u> | 21       | <u>۷</u> | -  | ┝               | ⊢  | ⊢            | ┢            | ⊢        | $\vdash$        | -         | -        | 71<br>72 | $\vdash$        | +        | +  | +       | ╀              | +        | -               | 4        |          | 121<br>122 | $\vdash$             | -        |          | $\dashv$           | $\dashv$  |
|          | 23       | V        | -  | -               | ⊢  | $\vdash$     | ┝            | ⊢        | Н               | $\dashv$  |          | 73       | ⊢               | +        |  | ┽       | ╁              | ╁        | $\vdash$        | $\dashv$ | <u> </u> | 123        | $\vdash$             |          |          | $\dashv$           | $\dashv$  |
|          | 24       | V        | ⊢  | -               |  | ╁            | ┼            | ┢        | Н               | -         | -        | 74       | $\vdash$        | -+       | +  | +-      | ╁              | ╁        | $\vdash$        | -        | -        | 124        | $\vdash$             |          |          | $\dashv$           | $\dashv$  |
|          | 25       | v        | $\vdash$   | $\vdash$        | ⊢  | ╁            | ┼            | ┢        | Н               | $\dashv$  | $\vdash$ | 75       |                 | +        | +  | +       | ╁              | +        | -               | $\dashv$ |          | 125        | H                    |          | -        | -+                 | $\dashv$  |
|          | 26       | v        | $\vdash$   |                 | Н  | ┢            | <del> </del> |          | Н               | _         |          | 76       | Н               | $\dashv$ | +  | +       | +-             | +        | $\vdash$        | _        |          | 126        | 1                    | _        | ヿ        | $\dashv$           | ╛         |
|          | 27       | v        |  |                 | T  | T            | <b>†</b>     |          |                 | $\neg$    |          | 77       | $\Box$          | 十        | $\top$   | +       | $\top$         | T        | 1               | 7        |          | 127        |                      | $\neg$   | ヿ        | $\dashv$           | $\exists$ |
|          | 28       | Т        |  |                 |  |              |              | -        |                 | ヿ         |          | 78       |                 |          |  | 1       |                | 1        |                 |          |          | 128        |                      | T        | ヿ゙       | $\neg$             | T         |
|          | 29       | Ī        |  |                 |  |              |              |          |                 |           |          | 79       |                 |          |  |         |                |          |                 |          |          | 129        |                      |          |          |                    |           |
|          | 30       |          |  | ļ.,             |  |              |              |          |                 |           |          | 80       |                 |          |  |         |                |          |                 |          |          | 130        |                      |          |          |                    |           |
|          | 31       |          |  |                 |  |              |              |          |                 |           |          | 81       |                 |          |  |         |                |          |                 |          |          | 131        |                      |          |          | $\perp$            | _         |
| <u></u>  | 32       |          |  |                 | L  | $\perp$      | _            | _        | Ш               | _         |          | 82       | $\sqcup$        |          | $\perp$  | $\perp$ | $\perp$        |          |                 | _        | L        | 132        | Щ                    | $\perp$  |          | _                  | 4         |
| ļ        | 33       | <u> </u> | $\vdash$   | $\vdash$        | <u> </u>   | -            | <u> </u>     | L-       | Ш               | 4         |          | 83       | $\sqcup$        | 4        | 4  |         | _              | 1        | $\vdash \vdash$ | 4        | <u> </u> | 133        | $\vdash$             | 4        | _        | $\dashv$           | 4         |
|          | 34       | <b>↓</b> | $\vdash$   | ⊢               | _  | $\vdash$     | <del> </del> | $\vdash$ | Н               | $\dashv$  | <u> </u> | 84       | $\vdash \vdash$ | +        |  |         | +              | +        |                 | 4        | ⊢        | 134        | $\vdash \vdash$      | $\dashv$ |          | $\dashv$           | $\dashv$  |
|          | 35       | <b>├</b> | -  | -               | $\vdash$   | $\vdash$     | 1            | $\vdash$ | Н               |           |          | 85<br>86 | ╁               | +        | +  | +       | +              | $\vdash$ | $\vdash$        | $\dashv$ | $\vdash$ | 135<br>136 | $\vdash \vdash$      | $\dashv$ |          | +                  | $\dashv$  |
| -        | 36       | ┼        | $\vdash$   | $\vdash$        | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ | Н               | $\dashv$  |          | 87       | $\vdash$        | $\dashv$ | +  | +       | +-             | +-       | $\vdash$        | $\dashv$ | $\vdash$ | 136        | $\vdash \vdash$      | $\dashv$ | -        | $\dashv$           | $\dashv$  |
| -        | 38       | $\vdash$ | ⊢  | ⊢               | $\vdash$   | ╁            | <del> </del> |          | H               | $\dashv$  | -        | 88       | $\vdash \vdash$ | $\dashv$ | +  | +       | +              | +        | $\vdash$        | $\dashv$ | -        | 138        | $\vdash$             | $\dashv$ | $\dashv$ | +                  | $\dashv$  |
|          | 39       | +        | $\vdash$   | Н               | $\vdash$   | +-           | 1            | $\vdash$ | H               | $\dashv$  | -        | 89       | +               | $\dashv$ | +  | +       | +              | +        | $\vdash \vdash$ | $\dashv$ | <u> </u> | 139        | $\vdash \vdash$      | +        | $\dashv$ | $\dashv$           | $\dashv$  |
|          | 40       | $t^-$    | $\vdash$   | $\vdash$        | <del>                                     </del> | †            | $t^{-}$      | $t^-$    | Н               | $\dashv$  | h        | 90       | $\vdash \vdash$ | $\dashv$ | +  | $\top$  | +              | $\top$   | $\vdash$        | ┪        |          | 140        | H                    | +        | $\dashv$ | $\dashv$           | 一         |
|          | 41       | T        | 1  | Т               | T  | T            | T            | Т        | Н               | $\neg$    |          | 91       |                 | 十        | 十  | $\top$  | †              | T        | $\vdash \vdash$ | 7        |          | 141        | H                    | _        | _        | 十                  | $\neg$    |
|          | 42       | T        | Г  |                 | Т  | 1            | 1            | T        | $\Box$          | $\exists$ |          | 92       | $\sqcap$        | 十        | 十  | 十       | $\top$         | $\top$   | $\vdash$        | ٦        |          | 142        |                      | 7        | 7        | 十                  | $\dashv$  |
|          | 43       |          |  |                 |  |              | L            | L        |                 |           |          | 93       |                 |          |  | Ţ       | $\perp$        |          |                 |          |          | 143        |                      |          | ╗        | $\Box$             |           |
|          | 44       |          |  |                 |  |              |              |          |                 |           |          | 94       | $\square$       | $\Box$   |  |         |                |          |                 |          |          | 144        |                      |          |          | $oldsymbol{\perp}$ |           |
|          | 45       |          |  |                 | $\Box$   |              | $\Box$       |          |                 |           |          | 95       | П               | $\bot$   | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |         | 1              |          | Ц               |          |          | 145        | Ш                    | $\perp$  | _[       | $\bot$             | _[        |
| <u></u>  | 46       | $\perp$  | _  | L               | <u>L</u>   | ↓_           | ــــ         | <u> </u> |                 | _         |          | 96       | Ш               | $\perp$  |  | $\perp$ | $\bot$         | _        | $\sqcup$        | _        |          | 146        |                      |          |          | $\dashv$           | _         |
| <u> </u> | 47       | <u> </u> | <u> </u>   | <u> </u>        | _  | ┺            | _            | <u> </u> | Ш               | _         | ļ        | 97       | $\sqcup$        | _        | 4  | $\perp$ | $\bot$         | 4        | $\sqcup$        | 4        |          | 147        | Ш                    | _ ;      | _        | $\dashv$           | 4         |
| <u> </u> | 48       | 1        | $\vdash$   | <u> </u>        | <u> </u>   | ـ            | ₽            | $\vdash$ | Ш               | _         | <u> </u> | 98       | $\sqcup$        | _        | 4  |         | 4-             | 4_       | $\vdash$        | 4        | <u> </u> | 148        | Ш                    | _        |          | $\dashv$           | _         |
| -        | 49<br>50 | $\vdash$ | ├_   | _               | -  | ┼-           | <del> </del> | ├-       | $\vdash \vdash$ | ᅴ         | <u> </u> | 99       | $\vdash \vdash$ | -        |  | +       | +              | ┼        | $\vdash \vdash$ | $\dashv$ | <u> </u> | 149        | ${oldsymbol{arphi}}$ |          | -        | $\dashv$           |           |
| 1        | 1 30     | 1        | 1  | 1               | 1  | 1            | ł            | ı        |                 | - 1       | l l      | 100      | 1 1             |          | - 1  | 1.      | 1              | 1        |                 |          | L        | 150        |                      | 1        |          | L                  |           |

| Claim    |            |          |                   |          |                                     | Date         | ,        |                                     |              |                 |
|----------|------------|----------|-------------------|----------|-------------------------------------|--------------|----------|-------------------------------------|--------------|-----------------|
| Final    | Original   |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 101        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 102        |          |                   |          |                                     |              |          |                                     |              | _               |
|          | 103        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 104<br>105 |          |                   |          |                                     |              |          |                                     |              | _               |
|          | 105        |          |                   |          |                                     |              |          |                                     |              | Ц               |
|          | 106        |          |                   |          |                                     |              |          |                                     |              | _               |
|          | 107        |          |                   |          |                                     | -            |          |                                     |              | Ц               |
|          | 108        | _        |                   |          |                                     |              |          |                                     |              | _               |
|          | 109        | Щ        |                   |          |                                     | $\vdash$     | _        |                                     |              |                 |
|          | 110        | Н        |                   |          |                                     |              | _        | -                                   |              | _               |
|          | 111<br>112 | Н        |                   |          | -                                   |              | _        |                                     |              | $\dashv$        |
|          | 112        |          |                   | _        | $\vdash$                            | H            | _        | -                                   | _            | Н               |
|          | 113<br>114 | Н        | -                 |          | -                                   | -            |          |                                     | H            | $\dashv$        |
|          | 115        | $\vdash$ |                   |          | -                                   |              | _        | -                                   |              | Н               |
|          | 116        |          |                   |          |                                     |              |          | -                                   |              | $\exists$       |
|          | 117        |          |                   |          |                                     |              |          | _                                   |              | $\Box$          |
| -        | 118<br>119 |          |                   |          |                                     |              |          |                                     |              | П               |
|          | 119        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 120        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 121<br>122 |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 122        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 123<br>124 |          | _                 |          |                                     |              |          |                                     |              | Ш               |
|          | 124        |          |                   |          |                                     |              |          |                                     |              | Ц               |
|          | 125        | <u> </u> | <u> </u>          | _        | _                                   | _            |          |                                     | _            | Ц               |
|          | 126<br>127 | _        | $\vdash$          |          | <u> </u>                            |              |          |                                     | ┡            | Н               |
|          | 127        | _        | _                 |          | _                                   | $\vdash$     |          | _                                   | ┝            | Н               |
|          | 120        |          | $\vdash$          | $\vdash$ | <u> </u>                            | ┝            |          |                                     | -            |                 |
|          | 129<br>130 | -        | $\vdash$          | ┝┈       |                                     | ┝            |          | $\vdash$                            | $\vdash$     | Н               |
|          | 131        | -        | $\vdash$          |          | $\vdash$                            |              |          | -                                   | -            |                 |
| -        | 132        | -        | -                 | -        | ┢                                   | $\vdash$     | _        | ┢                                   | $\vdash$     |                 |
|          | 132<br>133 |          |                   | -        | _                                   |              | $\vdash$ | $\vdash$                            | $\vdash$     | _               |
|          | 134        |          |                   |          | $\vdash$                            |              |          |                                     | Г            | П               |
|          | 135        |          | Γ                 |          |                                     |              | Г        |                                     |              | П               |
|          | 136        |          |                   |          | L                                   |              |          |                                     | Ĺ            |                 |
|          | 137        |          |                   |          |                                     |              |          |                                     |              |                 |
|          | 138        | <u> </u> | <u> </u>          | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L            |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L            | Ш               |
|          | 139        | <b> </b> | $ldsymbol{f eta}$ | L-       | L                                   | <u> </u>     | oxdot    | <b> </b> _                          | ╙            | Ш               |
|          | 140        | <u> </u> | <u> </u>          | <u> </u> | ऻ_                                  | <del> </del> |          | <u> </u>                            | <u> </u>     | Ш               |
|          | 141        |          | <b> </b>          | <u> </u> | <u> </u>                            | <u> </u>     | <u> </u> | $\vdash$                            |              | Щ               |
|          | 142        | H        | $\vdash$          | $\vdash$ | ├                                   | $\vdash$     | $\vdash$ | -                                   | <del> </del> | Н               |
|          | 144        | -        | -                 | ⊢        | ┝                                   | ⊢            | ⊢        | $\vdash$                            | -            | Н               |
| <u> </u> | 145        | $\vdash$ | ⊢                 | -        | $\vdash$                            | $\vdash$     | $\vdash$ | $\vdash$                            | $\vdash$     | Н               |
| -        | 146        |          | $\vdash$          | -        | -                                   | ┢            | ┢        | $\vdash$                            | $\vdash$     | $\vdash \vdash$ |
|          | 147        | $\vdash$ | $\vdash$          | -        |                                     | $\vdash$     | ┢╌       | H                                   | H            | H               |
|          | 148        | $\vdash$ | H                 | H        | $\vdash$                            | $\vdash$     | ┢        | $\vdash$                            | H            | Н               |
|          | 149        | Т        | Т                 | T        |                                     |              | ┢        | T                                   | İΤ           | H               |
|          | 150        |          |                   |          |                                     |              |          |                                     |              |                 |